PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF A TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 ALTERNATE (OLD NATIONAL PIKE) AND MT. PHILLIP ROAD IN FREDERICK COUNTY. US 40 ALT IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA 6 PHASE, FULL TRAFFIC ACTUATED MODE. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR EASTBOUND AND WESTBOUND US 40 ALT. VIDEO DETECTION IS PROPOSED FOR ALL APPROACHES. NON-INVASIVE MICROLOOP SETBACK DETECTION IS PROPOSED FOR THE EASTBOUND AND WESTBOUND APPROACHES.

CONTROLLER REQUIREMENTS

A VIDEO DETECTION INTERFACE SHALL BE INSTALLED INTO THE EXISTING POLE MOUNTED CONTROLLER CABINET.
SHA SIGNAL SHOP FORCES TO PERFORM INTERNAL CABINET WIRING.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

THE CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY::

Mr. John Concannon Assistant District Engineer- Traffic Phone: 301-624-8140

Mr. Richard L. Daff, Sr. Cheif, Traffic Operations Division Phone: 410–787–7630

Ms. Andrea Abend Assistant District Engineer – Utilities Phone: 301–624–8115 Mr. Robert Snyder Assistant Division Chief – Traffic Operations Division Phone: 410–787–7630

Phone: 301-624-8115

The Power Company Representative Alleghany Power Company 1301 West Patrick Street Frederick, MD 21702 Phone: 301-624-4410

Mr. Edward Rodenhizer Team Leader - Signal Operations Phone: 410-787-7650

Mr. Eugene Bailey Team Leader – Sign Operations Phone: 410–787–7676

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO

QUANTITY

DESCRIPTION

973023

SHEET ALUMINIUM MAST ARM/POLE MOUNTED SIGN -2 EACH-R3-5(L) (30 IN. × 36 IN.)

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

EQUIPMENT LIST 'B'

ITEM NO	QUANTITY	DESCRIPTION
120500	ILS	MAINTENANCE OF TRAFFIC
585625	80 LF	24 INCH PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
800000	ILS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
800000	I EA	FURNISH AND INSTALL LB CONDUIT BEND
800000	I EA	INSTALL 90 DEGREE CONDUIT BEND IN EXISTING FOUNDATION
805115	II5 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805135	20 LF	3 INCH SCHEDULE 90 RIGID PVC CONDUIT - TRENCHED
810605	2 EA	NON-INVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813006	29 SF	RELOCATE SIGNS FROM EXISTING OVERHEAD STRUCTURES
813015	15 SF	INSTALL OVERHEAD SIGN
816001	4 EA	VIDEO DETECTION CAMERA
816005	2 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
816010	2 EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
816015	I EA	VIDEO INTERFACE EQUIPMENT
860270	6 EA	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860284	32 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	45 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	725 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

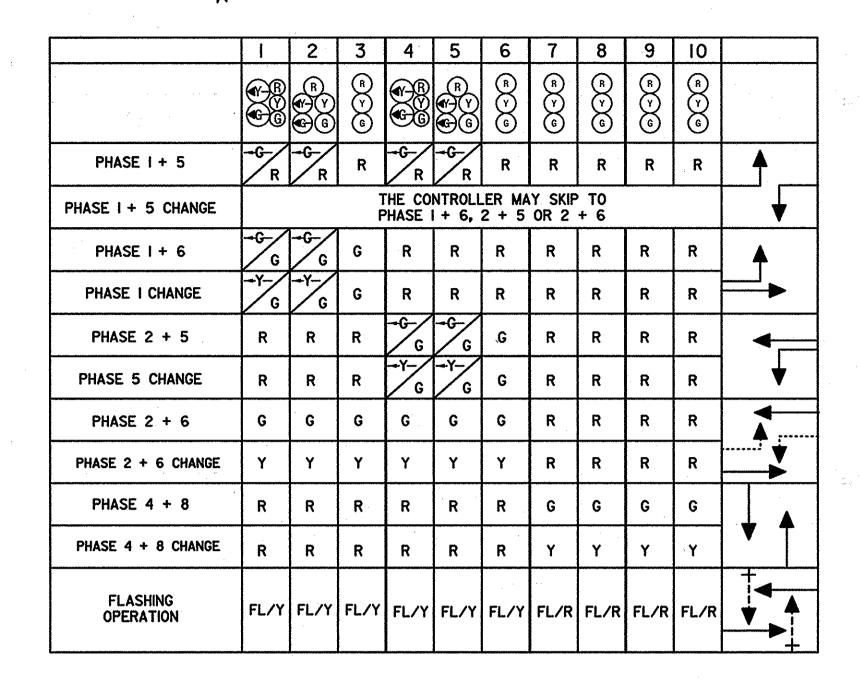
TEM NO QUANTITY

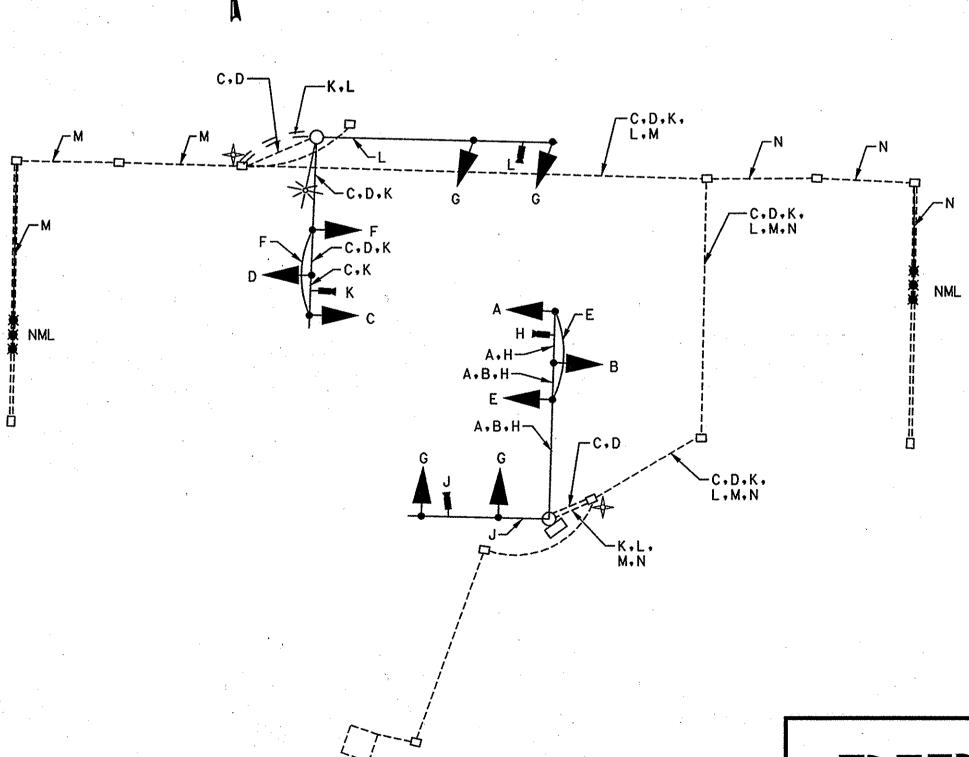
DESCRIPTION

NONE

NE NON

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR





WIRING DIAGRAM

A.B.C.D - ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG.)

E.F - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG.)

G-EXISTING CABLE TO BE UTILIZED

H.J.K.L VIDEO DETECTION LEAD-IN CABLE

M.N - MICROLOOP PROBE LEAD-IN CABLE

NML NON-INVASIVE MICROLOOP PROBE

GROUND ROD

SHA

TS NO.3406A-GI DRAWING

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION

US 40 ALTERNATE (OLD NATIONAL PIKE) AT MT. PHILLIP ROAD



RJM ENGINEERING, INC. CONSULTING ENGINEERS COLUMBIA, MARYLAND SCALE N.T.S. DATE 10/2007 CONTRACT NO. FR50/25130

DESIGNED BY P. WESTCOTT COUNTY FREDERICK

DRAWN BY P. WESTCOTT LOGMILE 1000/4010.03

CHECKED BY J.PANNEE TIMS NO. 1597

FAP NO. TOD NO.

SHEET NO. 10 OF 10

PLOTTED: Friday, October 19, 2007 AT 10:51 AM FILE: P:\SHA\US 40 At\10-2007\pSG-N000_US40alt.dgn

CENTURY ENGINEERING

CONSULTING ENGINEERS - PLANNERS 10710 GILROY ROAD HUNT VALLEY, MD 21031 Phone: (410) 823-8070 Fax: (410) 823-2184